

Special Issue

Biodiversity, Community Structure and Ecology of Terrestrial Ecosystems Under Global Change

Message from the Guest Editors

Global changes are profoundly reshaping the biodiversity patterns and community-building mechanisms of terrestrial ecosystems. Pressures such as frequent extreme weather events, land-use transformation, and biological invasions are reshaping plant-animal-microbe trophic interactions through cascading effects, driving ecosystem functional transformations. Our Special Issue focuses on the responses and adaptations of terrestrial biomes to global changes. Key areas of focus include (1) multiscale diversity dynamics: loss thresholds and maintenance mechanisms from genetic to landscape scales; (2) new paradigms in community building: trade-offs between environmental filtering, dispersal constraints, and ecological drift in disturbed environments; (3) trophic interactions: the feedback effects of food web restructuring on carbon and nitrogen cycles; (4) ecosystem resilience: predictive models for restoration based on functional traits and phylogenetics. We encourage innovative research that integrates remote sensing, multi-omics, controlled experiments, and other interdisciplinary approaches to provide the theoretical foundation for biodiversity conservation and ecosystem management.

Guest Editors

Dr. Libin Yang

Dr. Shibing Zhu

Prof. Dr. Guangze Jin

Prof. Dr. Huilin Han

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Diversity
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
diversity@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Diversity (ISSN 1424-2818) is a scholarly journal that covers all areas of diversity research. Our distinguished editorial board and refereeing process ensures the highest degree of scientific rigor for publishing. Original research articles and timely reviews are released online, with unlimited free access.

We invite papers and reviews on multidisciplinary topics of diversity that bridge organismic diversity (systematics, biodiversity, phylogeny, population genetics, and evolution) and molecular diversity (phytochemistry and biophysics).

Editor-in-Chief

Prof. Dr. Michael Wink

Institute of Pharmacy and Molecular Biotechnology, Heidelberg
University, Im Neuenheimer Feld 329, D-69120 Heidelberg, Germany

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